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NPIC/TSSG/DED-1523-69

27 February 1969

MEMORANDUM FOR: Chief, Photogrammetry Division, IEG

SUBJECT : Request for Support

1. It is requested that the [] Dual Screen Measuring Projector be made available to TSSG/DED for testing some samples of improved rear-projector screen material. These tests are planned on a non-interference basis so that the Projector would still be available for operational use. The Project Officer, [] of DED, along with [] of PHD, have evolved a routine which should satisfy this latter requirement.

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2. The screens to be tested have been produced by The Corning Glass Works under NPIC contract. A number of sample screens have been produced and their characteristics have been measured. Although these physical measurements, in most cases, exceed those of the best commercially available screens, it is also imperative that these screens be subjectively tested by photointerpreters. A suitable subjective test is being designed by The Boeing Company, and the tests will be conducted by fully cleared Boeing personnel. Present plans call for starting these tests on 1 April 1969, with approximately 100 hours of testing, not necessarily consecutive.

3. Basically, the P.I. test will consist of random comparison of pairs of 12 1/8" x 15 1/8" x 1/4" sample screens as well as comparison of each of these sample screens with the small Polacoat Type B-781 high power screen presently installed in the [] Dual Screen Measuring Projector. In addition, subjective evaluation of the resolution characteristics of the sample screens and the Polacoat Type B-781 screen will be made.

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4. Specifically, the test routine calls for using the [] Dual Screen Measuring Projector in IEG/PHD. Qualified personnel from the Engineering Support Division of TSSG will remove and replace the high power (12 1/8" x 15 1/8" x 1/4") screen and the low power (41 3/8" x 41 3/8" x 1/4") screen currently on the projector, at the beginning and end of the tests. The large screen will be safely stored and the small screen will be utilized in the tests as set forth in paragraph 3 above. Suitable test assemblies to hold the samples will be constructed to replace the

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low power screen for the tests. When required for operational use, these assemblies on the large screen will allow the operator to accomplish the required general area orientation. One of the new Corning sample screens (12 1/8" x 15 1/8" x 1/4") will also be installed in the high power screen holder for critical operational use. Should this routine prove to be inadequate, TSSG/ESD will restore the machine to its original configuration on demand and in a minimum period of time.

5. Upon completion of the tests and evaluation of the sample screens, it is planned to make the best screen available to PHD for permanent installation in the Projector should it be desired.

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Acting Chief,
Development & Engineering Division, TSSG

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Distribution:

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